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THIACALIX[4]ARENES DERIVATIVES: FROM SELF-ASSEMBY TO FUNCTIONAL MATERIALS

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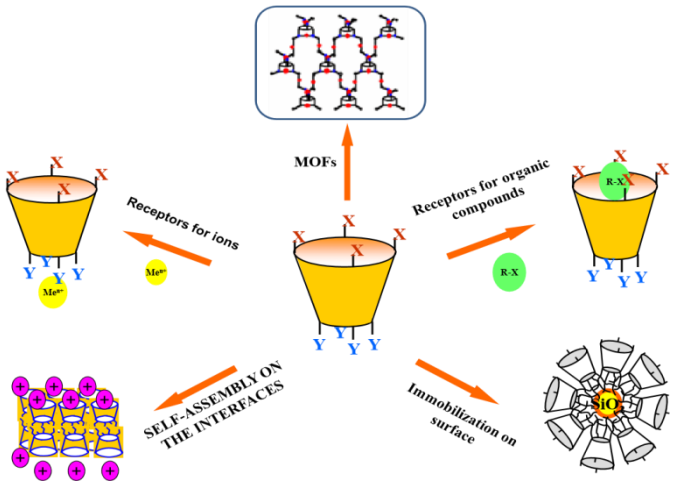
Abstract. Lower rim thiacalix[4]arenes derivatives in *cone* and *1,3-alternate* conformations have many advantages to create a wide range of precursors for the design of very sophisticated supramolecular architectures.



These compounds can be considered as technological platform for nanomaterials design by selfassembly method. Particular attention will be paid to the application of calixarene derivatives for the construction of various supramolecular and nanosystems, devices and “smart” materials: nanoparticles, Langmuir-Blodgett nanolayers, catalysts etc.

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